

ABSTRACT OF THE DISCLOSURE

First to third optical waveguides are disposed on an optical waveguide substrate. Among the first to third optical waveguides, a part of the first optical waveguide is disposed closely to a part of the second optical waveguide to constitute a directional coupler for transferring the power of light with a predetermined wavelength. A light emitting device for emitting a transmission signal light is disposed on one end of the first optical waveguide. At the end face of the optical waveguide substrate, the end of the second optical waveguide and the end of the third optical waveguide face a wavelength filter. Light, which has been guided through the second optical waveguide and reflected from the wavelength filter, is coupled to the third optical waveguide, while light, which has been guided through the third optical waveguide and reflected from the wavelength filter, is coupled to the second optical waveguide. Light transmitted through the wavelength filter is received in a photodetector for reception. By virtue of this construction, a wavelength multiplex optical communication module can be provided which can realize, in a simple construction, various functions such as transmission or reception of signal light with a plurality of wavelengths. That is, light with a specific wavelength can be sent, or other specific light in the input light can be received or transferred to other site.

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